

**UNITED STATES DEPARTMENT OF COMMERCE****Patent and Trademark Offic**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
05/212,750	05/14/93	ROULE	46839-5/3701

HM11/0406

EXAMINER

JOHN P. WHITE
COOPER & DUNHAM LLP
1185 AVENUE OF THE AMERICAS
NEW YORK NY 10036

PAK, M

ART UNIT	PAPER NUMBER
	1646

DATE MAILED: 04/03/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

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Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
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[REDACTED] EXAMINER

[REDACTED] ART UNIT [REDACTED] PAPER NUMBER

9

L J DATE MAILED:

Please find below a communication from the EXAMINER in charge of this application.

Commissioner of Patents

Serial No. 09/312,596

1. The reply filed 3 November 2000 (Paper No. 9) is not fully responsive to the communication mailed 28 May 1999 (Paper No. 3) for the reason(s) set forth on the attached Notice To Comply With The Sequence Rules or CRF Diskette Problem Report.

Since the above-mentioned reply appears to be *bona fide*, applicant is given a TIME PERIOD of **ONE (1) MONTH or THIRTY (30) DAYS**, from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME LIMIT MAY BE GRANTED UNDER 37 CFR 1.136(a).

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Pak, whose telephone number is (703) 305-7038. The examiner can normally be reached on Monday through Friday from 5:50 AM to 2:20 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, can be reached on (703) 308-6564.

Official papers filed by fax should be directed to (703) 308-4242. Faxed draft or informal communications with the examiner should be directed to (703) 308-0294.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Michael D. Pak

Michael Pak
Primary Patent Examiner
Art Unit 1646
18 December 2000

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
- 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- 6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- 7. Other:

Applicant Must Provide:

- An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216
For CRF Submission Help, call (703) 308-4212
For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

New Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/312, 596

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleic The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces. TECH CENTER 1600/2000
- 4 Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 Skipped Sequences (OLD RULES) Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences (NEW RULES) Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 10 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism (NEW RULES) Sequence(s) are missing this mandatory field or its response.
- 12 Use of <220>Feature (NEW RULES) Sequence(s) are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.

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NOV 29 2000

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/312,596

DATE: 11/20/2000
TIME: 08:38:37

Input Set: A:\593601.app
Output Set: N:\CRF3\11202000\I312596.raw

3 <110> APPLICANT: Rolo, Lorna W.
4 Talmage, David
5 Bao, Jianxin
7 <120> TITLE OF INVENTION: A-Form of CYTOPLASMIC DOMAIN OF nARIA (CRD-NEUREGULIN
8 AND USES THEREOF
10 <130> FILE REFERENCE: 0575/59360
12 <140> CURRENT APPLICATION NUMBER: 09/312,596
13 <141> CURRENT FILING DATE: 1999-05-14
15 <160> NUMBER OF SEQ ID NOS: 4
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 3212
21 <212> TYPE: DNA
22 <213> ORGANISM: CHICKEN nARIA
24 <400> SEQUENCE: 1
25 cggatgtgc tgcatacgcc acttttcgcg ctgtccgtgt ttttacagat ttgttttttg 60
26 ctcttttac cgcattggaa ttgtttttctt cgcattggaa gataccggcc tcaggatgtcc 120
27 aaggtagagag tcttgcgttt cgcattggcc tattttttca ctttttttttcc tcatttttgtt 180
28 cgttgcgtgtt ggtttttttt cttttttttt tttttttttt tttttttttt 240
29 gttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300
30 aaggaaattat aaaaatggcc agggaaacaaat agggcgttca ctggatgttttcc accctttttt 360
31 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 420
32 cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 480
33 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 540
34 acatgtttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 600
35 cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 660
36 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 720
37 cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 780
38 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 840
39 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 900
40 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 960
41 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1020
42 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1080
43 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1140
44 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1200
45 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1260
46 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1320
47 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1380
48 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1440
49 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1500
50 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1560
51 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1620
52 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1680
53 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1740
54 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1800
55 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1860
56 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1920

Does Not Comply
Corrected Diskette Needed
See pp. 2, 3, 4, 5

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/312,596

DATE: 11/20/2000
TIME: 08:38:37

Input Set : A:\593601.app
Output Set: N:\CRF3\11202000\I312596.raw

57 caatggcatt qqtgcccaaa qqqaaqqcaa caacttcctc cqqcaLycaa gagagacccc 1980
 58 tgacttctac cgagacttcctc ctccacagtga aaqgatgtgc tcaatgtca ccacaccagg 2040
 59 tcqcatgtca cccqttqatt tecacactcc aacttctcc aqgtccctc catctqaat 2100
 60 qtcacccatca qttccatqet tcaatcttc catcttcq qttqccgtga gtcctttat 2160
 61 qqaedaggaa qaqccqctqc tattqgtqac ccacccacqg ctqeqtqagu agtaeqacaa 2220
 62 ccacccatca caattcaact ccLccacaa caatccccacc catqagagca acqctctgcc 2280
 63 accecaqtect ctqaggataq tquaqatqca aqqaqatqaaq accacccaaq aqtaeqacaa 2340
 64 aqcaacuqaa ctcacaaqaa aactcaacaa qaqccqccqg qtqaaaqaa qaaacccaa 2400
 65 tqgccatatt tccacqccqg tqaatgtqa ctccqacaca aqctctcaq qcaactagtc 2460
 66 tqaqagcqaa acagaagatq aqaaqatagg tqaatgtaca ccatttcLca qatacaaaa 2520
 67 tccatqccaa accaqtctqc aqccacccqg tcaatateqq ctqgtqaga acaggactaa 2580
 68 ccuugraaat cqetctcca ccccaaaqaa qttqccaaqca aqgttqccca gtgttaataqg 2640
 69 taaccaaaqac cctattqetq tataaqaat aacaaaaach cataqatcc catgtaaaaac 2700
 70 ttatatttat ataaatqaat atccacccit taaattuaac aatittttt attttqaac 2760
 71 ttcqgtqat aqaaadadq aqttqaaadaa qaadatitttta taaatlaagt atacqatqat 2820
 72 acaatqgtqat tatqgtccat atqiaqaaat ttttacqat attcacaaa tqqqqaaaga 2880
 73 tatcaatqgt qcccttatqat taitqatqat tqaqagcdaq ttttqataq ctacaatqat 2940
 74 tgcgtccccq tqaatqatqca aaaaaccttc tqaatqatcaq tttqatqatqcc 3000
 75 attqatrat aqtaqatqqa rqaatqatrt qqaatqatq qqaatqatcc catttqatqg 3060
 76 ttqtlqdaatc cccdqatca aqaaqatqat tcaatqatcc acaccatcc cacttcacca 3120
 77 qqaadaaaaaa aaaaatcaaaa aqaaadaaaaa aqaaadaaaaa aqaaadaaaaa aaaaaagaaaa 3180
 78 aqaaadaaaaa aaaaaaagct qaaaaataaa aa 3212
 81 <210> SF0 ID NO: 2
 82 <211> LENGTH: 1070
 83 <212> TYPE: PRT
 84 <213> ORGANISM: CHICKEN DARTIA
 86 <400> SEQUENCE: 2
 87 Gly Cys Cys Cys Tyr Cys His Phe Cys Arg Cys Arg Cys Cys Tyr Arg
 88 1 5 10 15
 W--> 90 Phe Cys Phe Cys Ser Phe Tyr Arg Met Thr Ile Val Phe Leu Ala Xaa
 91 20 25 30
 W--> 93 Ala Asp Thr Ser Leu Arg Cys Ser Arg Xaa Glu Ser Cys Leu Ser Leu
 94 35 40 45
 95 trp Ala Ile Gly Ser Leu Asn Pro Val Asn Leu Phe Ala Ala Arg Gly
 96 50 55 60
 99 Cys Leu Ser Pro Arg Pro Pro Ser Pro Cys Phe Val Leu Phe Arg Leu
 100 65 70 75 80
 102 Leu Ser Gly Gly Arg Ser Phe Pro Gln Ser Glu Glu Leu Glu Leu Leu
 103 85 90 95
 105 Glu Arg Arg Ile Arg Asn Tyr Lys Ser Gly Gln Glu Thr Arg Ala Gln
 106 100 105 110
 W--> 108 Xaa Leu Gln Ser Cys Pro Trp Leu Arg Gln Gly Ser Val Ser Gly Arg
 109 115 120 125
 111 Gly Leu Gly Gln Gly Ala Gly Gly Leu Leu Phe Pro Val Arg Ser Ser
 112 130 135 140
 114 Ser Pro Ser Ser Asp Asp Val Ala Val Ser Asp Leu Ser Leu Thr Pro
 115 145 150 155 160
 W--> 117 Ala Leu Xaa Phe Leu Leu Ser Ala Val Thr Val Thr Pro Ser Leu Ser
 118 165 170 175

L2207
*mandates for
 missing features for
 "Xaa's" in the
 sequence. See #10 on
 the Error Summary Sheet.*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/312,596

DATE: 11/20/2000
TIME: 08:38:37

Input Set : A:\593601.app
Output Set: N:\CRF3\11202000\1312596.raw

W--> 120 Val Cys Val Ser Gln Xaa Trp Thr Val Ile Glu Leu Arg Pro Phe Gly
 121 180 185 190
 W--> 123 Gly Glu Leu Cys His Ser Xaa Cys Leu Asn Met Ser Glu Val Gly Thr
 124 195 200 205
 126 Glu Thr Phe Pro Ser Pro Ser Ala Gln Leu Ser Pro Asp Ala Ser Leu
 127 210 215 220
 129 Glu Gly Leu Pro Ala Glu Glu Asn Met Pro Gly Pro His Arg Glu Asp
 130 225 230 235 240
 132 Ser Arg Val Pro Gly Val Ala Gly Leu Ala Ser Thr Cys Cys Val Cys
 133 245 250 255
 135 Leu Glu Ala Glu Arg Leu Lys Gly Cys Leu Asn Ser Glu Lys Ile Cys
 136 260 265 270
 138 Ile Ala Pro Ile Leu Ala Cys Leu Leu Ser Leu Cys Leu Cys Ile Ala
 139 275 280 285
 141 Glu Leu Lys Itp Val Phe Val Asp Lys Ile Phe Glu Tyr Asp Ser Pro
 142 290 295 300
 144 Thr His Leu Asp Pro Gly Arg Ile Gly Gln Asp Pro Arg Ser Thr Val
 145 305 310 315 320
 147 Asp Pro Thr Ala Leu Ser Ala Trp Val Pro Ser Glu Val Tyr Ala Ser
 148 325 330 335
 150 Pro Phe Pro Ile Pro Ser Leu Glu Ser Lys Ala Glu Val Thr Val Gln
 151 340 345 350
 153 Thr Asp Ser Ser Leu Val Pro Ser Arg Pro Phe Leu Gln Pro Ser Leu
 154 355 360 365
 156 Tyr Asn Ara Ile Leu Asp Val Gly Leu Trp Ser Ser Ala Thr Pro Ser
 157 370 375 380
 159 Leu Ser Pro Ser Ser Leu Glu Pro Thr Thr Ala Ser Glu Ala Gln Ala
 160 385 390 395 400
 162 Thr Glu Thr Asn Leu Glu Thr Ala Pro Lys Leu Ser Thr Ser Thr Ser
 163 405 410 415
 165 Thr Thr Gly Thr Ser His Leu Thr Lys Cys Asp Ile Lys Gln Lys Ala
 166 420 425 430
 168 Phe Cys Val Asn Gly Gly Glu Cys Tyr Met Val Lys Asp Leu Pro Asn
 169 435 440 445
 171 Pro Pro Arg Tyr Leu Cys Arg Cys Pro Asn Gln Phe Thr Gly Asp Arg
 172 450 455 460
 174 Cys Gln Asn Tyr Val Met Ala Ser Phe Tyr Lys His Leu Gly Ile Glu
 175 465 470 475 480
 177 Phe Met Glu Ala Glu Glu Leu Tyr Gln Lys Arg Val Leu Thr Ile Thr
 178 485 490 495
 180 Gly Ile Cys Ile Ala Leu Leu Val Val Gly Ile Met Cys Val Val Ala
 181 500 505 510
 183 Tyr Cys Lys Thr Lys Lys Gln Arg Lys Lys Leu His Asp Arg Leu Arg
 184 515 520 525
 186 Gln Ser Leu Arg Ser Glu Arg Asn Asn Val Met Asn Met Ala Asn Gln
 187 530 535 540
 189 Pro His His Pro Asn Pro Pro Asp Asn Val Gln Leu Val Asn Gln
 190 545 550 555 560
 192 Tyr Val Ser Lys Asn Ile Ile Ser Ser Glu Arg Val Val Glu Arg Glu

refer to p. 2

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/312,596

DATE: 11/20/2000
TIME: 08:38:37

Input Set : A:\593601.app
Output Set: N:\CRF3\11202000\I312596.raw

193	565	570	575	
195	Ihr Glu Thr Ser Phe Ser Ihr Ser His Tyr Thr Ser Thr Thr His His			
196	580	585	590	
198	Ser Met thr Val Ihr Gln Ihr Pro Ser His Ser Irp Ser Asn Gly His			
199	595	600	605	
201	Ihr Glu Ser Ile Leu Ser Glu Ser His Ser Val Leu Val Ser Ser Ser			
202	610	615	620	
204	Val Glu Asn Ser Arg Ris Ihr Ser Pro Thr Gly Pro Arg Gly Arg Leu			
205	625	630	635	640
207	Asn Gly Ile Gly Gly Pro Arg Glu Gly Asn Ser Phe Leu Arg His Ala			
208	645	650	655	
210	Arg Glu Thr Pro Asp Ser Ivr Arg Asp Ser Pro His Ser Glu Arg Tyr			
211	660	665	670	
213	Vaf Ser Ala Met Ihr Thr Pro Ala Arg Met Ser Pro Val Asp Phe His			
214	675	680	685	
216	Thr Pro Ihr Ser Pro Ivs Ser Pro Pro Ser Glu Met Ser Pro Pro Val			
217	690	695	700	
219	Ser Ser Leu Ihr Ile Ser Ile Pro Ser Val Ala Val Ser Pro Phe Met			
220	705	710	715	720
222	Asp Glu Glu Arg Pro Leu Leu Leu Val Ihr Pro Pro Arg Leu Arg Glu			
223	725	730	735	
225	Lys Tyr Asp Asn His Leu Gln Gln Phe Asn Ser Phe His Asn Asn Pro			
226	740	745	750	
228	Ihr His Glu Ser Asn Ser Leu Pro Pro Ser Pro Leu Arg Ile Val Glu			
229	755	760	765	
231	Asp Glu Glu Tyr Glu Ihr Thr Gln Glu Tyr Glu Pro Ala Gln Glu Pro			
232	770	775	780	
234	Pro Lys Ivs Leu Thr Asn Ser Arg Arg Val Lys Arg Thr Lys Pro Asn			
235	785	790	795	800
237	Gly His Ile Ser Ser Arg Val Glu Val Asp Ser Asp Ihr Ser Ser Gln			
238	805	810	815	
240	Ser Thr Ser Ser Glu Ser Glu Ihr Glu Asp Glu Arg Ile Gly Glu Asp			
241	820	825	830	
243	Ihr Pro Phe Leu Ser Ile Gln Asn Pro Met Ala Ihr Ser Leu Glu Pro			
244	835	840	845	
246	Ala Ala Ala Tyr Arg Ile Ala Glu Asn Arg Thr Asn Pro Ala Asn Arg			
247	850	855	860	
249	Phe Ser Ihr Pro Glu Glu Leu Glu Ala Arg Leu Ser Ser Val Ile Ala			
250	865	870	875	880
W--> 252	Asn Gln Asp Pro Ile Ala Val Xaa Asp Ile Asn Lys Thr His Arg Phe			
253	885	890	895	
255	Thr Cys Lys Ihr Leu Phe Tyr Ile Met Lys Tyr Ser Ihr Phe Lys Leu			
256	900	905	910	
258	Asn Asn Leu Phe Tyr Phe Ser Asn Ser Ala Asp Arg Lys Gln Glu Trp			
259	915	920	925	
W--> 261	Lys Lys Lys Leu Leu Xaa Ile Lys Tyr Thr Tyr Val Gln Met Cys Tyr			
262	930	935	940	
264	Val Pro Tyr Val Ala Ile Phe Tyr Ser Ile Ser Lys Met Gly Lys Asp			
265	945	950	955	960

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for p. 2
fcr
fcr

RAW SEQUENCE LISTING DATE: 11/20/2000
PATENT APPLICATION: US/09/312,596 TIME: 08:38:38

Input Set : A:\593601.app
Output Set: N:\CRF3\11202000\I312596.raw

W--> 326 Ala Cys Lys Met Leu Tyr His Leu Val Gly Gly Ala Ser Ala Trp Xaa
 327 1 5 10 15

same refer to p. 2
please check all
of sequence # 4
for "X-axis".

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/312,596

DATE: 11/20/2000
TIME: 08:38:39

Input Set : A:\593601.app
Output Set: N:\CRF3\11202000\I312596.raw

L:90 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:90 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:90 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:90 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
L:90 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
L:93 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:93 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:93 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:93 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
M:340 Repeated in SeqNo=2
L:108 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:108 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:108 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:108 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
L:117 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:117 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:117 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:117 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
L:120 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:120 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:120 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:120 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
L:123 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:123 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:123 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:123 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
L:252 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:252 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:252 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:252 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
L:261 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:261 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:261 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:261 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
L:270 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:270 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:270 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:270 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
L:285 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:285 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:285 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:285 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
L:326 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:326 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:326 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:326 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4
L:389 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4

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NOV 29 2000

TECH CENTER 1600/2900

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/312,596

DATE: 11/20/2000
TIME: 08:38:39

Input Set : A:\593601.app
Output Set: N:\CRF3\11202000\I312596.raw

L:389 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:389 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:389 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:4
M:340 Repeated in SeqNo 4
L:392 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:392 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4